

Amendment to the Claims

1 – 147 (canceled)

148. (currently amended) ~~The construct of claim 132~~ A construct for use as a tissue engineering scaffold or for implanting into a subject comprising:

a tissue engineered construct that has been subjected to decellularization, wherein the tissue engineered construct comprises a tissue engineered construct that has been subjected to electrical stimulation during a first growth period.

149 - 184 (canceled)

185. (currently amended) ~~The construct of claim 182,~~ A construct for use in tissue engineering or for implanting into a subject comprising:

a decellularized tissue engineered construct; and

a population of cells, wherein the decellularized tissue engineered construct is seeded with the population of cells, and wherein the decellularized tissue engineered construct comprises a decellularized tissue engineered construct that has been subjected to electrical stimulation during a growth period.

186. (canceled)

187. (canceled)

188. (currently amended) ~~The construct of claim 182,~~ A construct for use in tissue engineering or for implanting into a subject comprising:

a decellularized tissue engineered construct; and

a population of cells, wherein the decellularized tissue engineered construct is seeded with the population of cells, and wherein the decellularized tissue engineered construct comprises a decellularized tissue engineered construct produced using human cells.

189. (currently amended) ~~The construct of claim 182;~~ A construct for use in tissue engineering or for implanting into a subject comprising:

a decellularized tissue engineered construct; and

a population of cells, wherein the decellularized tissue engineered construct is seeded with the population of cells, and wherein the decellularized tissue engineered construct comprises a decellularized tissue engineered construct produced using neonatal cells.

190. (currently amended) ~~The construct of claim 182;~~ A construct for use in tissue engineering or for implanting into a subject comprising:

a decellularized tissue engineered construct; and

a population of cells, wherein the decellularized tissue engineered construct is seeded with the population of cells, and wherein the decellularized tissue engineered construct comprises a decellularized tissue engineered construct produced using genetically transformed cells.

191 - 193. (canceled)

194. (currently amended) ~~The construct of claim 182;~~ A construct for use in tissue engineering or for implanting into a subject comprising:

a decellularized tissue engineered construct; and

a population of cells, wherein the decellularized tissue engineered construct is seeded with the population of cells, and wherein the population of cells is cultured *in vitro* before the decellularized tissue engineered construct is seeded therewith.

195. (canceled)

196. (currently amended) ~~The construct of claim 182;~~ A construct for use in tissue engineering or for implanting into a subject comprising:

a decellularized tissue engineered construct; and

a population of cells, wherein the decellularized tissue engineered construct is seeded with the population of cells, and wherein the population of cells comprises cells of at least two different cell types.

197. (currently amended) ~~The construct of claim 182,~~ A construct for use in tissue engineering or for implanting into a subject comprising:

a decellularized tissue engineered construct; and

a population of cells, wherein the decellularized tissue engineered construct is seeded with the population of cells, and wherein the population of cells comprises neonatal cells.

198. (currently amended) ~~The construct of claim 182,~~ A construct for use in tissue engineering or for implanting into a subject comprising:

a decellularized tissue engineered construct; and

a population of cells, wherein the decellularized tissue engineered construct is seeded with the population of cells, and wherein the population of cells comprises human cells.

199 - 218. (canceled)